

Claims:

1. A safety valve for setting in a tubular having a fluid port to an inside thereof, comprising:
 - a closing member operated by an actuator responsive to a fluid pressure supplied to the fluid port; and
 - at least one seal assembly, comprising:
 - a seal on an outer circumference of the safety valve, the seal compressible against an inside surface of the tubular;
 - a first piston disposed on a first side of the seal and movable to compress the seal in response to a wellbore fluid pressure; and
 - a second piston disposed on a second side of the seal and movable to compress the seal in response to the fluid pressure supplied to the fluid port.
2. The safety valve of claim 1, wherein two seal assemblies are longitudinally spaced from each other on the safety valve.
3. The safety valve of claim 1, wherein the seal comprises a plurality of chevron seals on each side of a sealing element, the chevron seals oriented such that the sealing element is between concave portions of the chevron seals.
4. The safety valve of claim 1, wherein the seal comprises a plurality of chevron seals on each side of an elastomer, the chevron seals capable of moving with the pistons to compress the elastomer and oriented such that the elastomer is between concave portions of the chevron seals.
5. The safety valve of claim 1, wherein the tubular has an irregular inner diameter.

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6. The safety valve of claim 1, wherein the inside surface of the tubular has irregularities and the at least one seal assembly provides a fluid seal in the annular area between the safety valve and the tubular.

7. The safety valve of claim 1, wherein an outer diameter of the safety valve is adapted to be received in the tubular.

8. The safety valve of claim 1, wherein the tubular is a landing nipple.

9. The safety valve of claim 1, wherein the safety valve is a surface controlled, subsurface safety valve (SCSSV).

10. A method for sealing a safety valve in a bore of a tubular located in a well, comprising:

locating the safety valve in the bore, the safety valve having at least one seal assembly disposed about an outer surface thereof, wherein the at least one seal assembly includes a seal, a first piston disposed on a first side of the seal, and a second piston disposed on a second side of the seal; and

urging either the first piston, the second piston or both the first and second piston toward the seal to force the seal into sealing contact with an inside surface of the bore.

11. The method of claim 10, wherein urging the first piston is caused by wellbore fluid pressure applied to the first piston when the safety valve is closed.

12. The method of claim 10, wherein urging the second piston is caused by fluid pressure supplied from a control line to a fluid port in fluid communication with an inside portion of the bore.

13. The method of claim 10, wherein the seal comprises a plurality of chevron seals on each side of a sealing element, the chevron seals oriented such that the sealing element is between concave portions of the chevron seals.

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14. The method of claim 10, wherein locating the safety valve in the bore comprises running the safety valve in the well on a wire line and setting the safety valve in the bore.

15. The method of claim 10, wherein two seal assemblies are longitudinally spaced from each other on the safety valve.

16. An assembly for setting a safety valve in a well, comprising:

a tubular member located in the well and having a bore adapted to receive the safety valve; and

at least one seal assembly on the safety valve, the at least one seal assembly comprising:

a seal on an outer circumference of the safety valve;

a first piston disposed on a first side of the seal and movable to force the seal into sealing contact with an inside of the bore in response to wellbore fluid pressure; and

a second piston disposed on a second side of the seal and movable to force the seal into sealing contact with the inside of the bore in response to a fluid pressure supplied from a control line.

17. The assembly of claim 16, wherein two seal assemblies are longitudinally spaced from each other on the safety valve.

18. The assembly of claim 16, wherein the seal comprises a plurality of chevron seals on each side of a sealing element, the chevron seals oriented such that the sealing element is between concave portions of the chevron seals.

19. The assembly of claim 16, wherein the seal comprises a plurality of chevron seals on each side of an elastomer, the chevron seals capable of moving with the pistons to compress the elastomer and oriented such that the elastomer is between concave portions of the chevron seals.

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20. The assembly of claim 16, wherein the bore has an irregular inner diameter.
21. The assembly of claim 16, wherein the inside surface of the bore has irregularities and the at least one seal assembly provides a fluid seal in the annular area between the safety valve and the tubular member.